

D-Trifluoro Acetyl Amino Acids, by F. Heygand, E.
Gaerdes, 5 pp.

GERMAN, per, Angew Chem, Vol LXIV, 1952, p 136.

NIH 9-21

SLA-59-19197

Sci - Chem
Sep 59

97,400

On N-Glycosides, Report III. Steric Course of Hydro-
genation of Iso-Glycosaminose Acetals for
9-Polyoxyalkylflavins and N-Polyoxyalkylamino-
benzenes, by Friedrich Heyns, II pp.
GERMAN, per, Chem Ber, Vol LXXXI, 1948, pp 1278-1283
ABC-Tr-6262

Sci-Mar & Met
Mar 64

252,226

Vitamin B₁₂, Purines and Pyrimidines Requirement
of *Lactobacillus Leichmannii*, by Friedrich Weygand,
Adolf Wacker, Friedrich Wirth, 19 p.

GERMAN, per, Zeit fur Naturforsch, 1951, Vol VII,
No 1, pp 25-34.

SLA 59-20795

Sci
Mar 60
Vol 3, No 1

110,824

~~Chemical Abstracts~~ Fractional Distillation of Methyl
N-Trifluoroacetyl-Methyl Esters, by Friedrich Weygand,
Rolf Geiger. 17 pp. UNCLASSIFIED

GERMAN, per, Chem Ber, Vol XCII, No 9, 1959,
pp 2099-2106. (Continued From XIV Chem Ber, Vol XCII,
1959, p 2095).

Navy 2656/EMCS 486

Sci - Chemistry
Nov 60

133,795

Experiments With Radioactive Indoleacetic Acid to
Test the So-Called Diversion of the Growth Hormone
Stream by Light, by Erwin Bunning, Hans J. Reiserer,
Friedrich Weygand, Helmut Simon, Johann Friedrich
Klebe, 3 pp.

GERMAN, per, Z. Naturforsch, Vol XII, 1956, pp 363-
364.

AEC Tr 254c

Sci - Chemistry
Aug 1956 CRS/dex

37,490

Technical Properties of Cold-Formed
Bars, by R. Weyhiller.
Gibson, per, Werkstattstechnik, Vol 54,
Oct 1964, pp 511-515,
NIST 4226

76

R. Weyhiller

Sci/Eng
Jul 65

284,057

Weyl, A. R.
KNOWLEDGE AND POSSIBILITIES OF GRAVITY
RESEARCH. [1963] [19] p. 20 refs.
Order from SLA \$1.60

63-14486

Trans. of Weltraumfahrt (West Germany) 1958, v. 9,
Dec, p. 100-106.

DESCRIPTORS: *Scientific research, *Gravity,
Mass-energy relation, Field theory, Electromagnetic
fields, Relativity theory, Quantum mechanics.

Einstein's unified-field theory establishes that gravi-
tational fields are connected with electro-magnetic
fields. From more general field theories with six or
more dimensions, we can expect the existence of an
"intermediate field", which is neither gravitational
nor electrical. Such an intermediate field could be
identified as the non-electrical nuclear binding forces.
(Physics--Theoretical, TT, v. 10, no. 5) (over)

63-14486

I. Weyl, A. R.

A242702

Office of Technical Services

Reflections on the Purpose of the State, by Roland May, 12 pp.
FRENCH, per, La Nouvelle Critique, No 151, Dec 1963, pp 114-125.

JPRS 23430

WE-France
Pol
Mar 64

251, 407

The Action of Ozone on Sulfur Compounds and
on Sulfur, by T. Wohl.

OSWALD, per, Chemiker-Zeitung, Vol XXV, 1901,
p 252.

Dept of Int
US Bur of Mines
Petroleum Exper Sta Lib
Bartlesville, Okla. No 60

Sci - Chem
May 59

87,526

Weyl, W. A.

A FEW ASPECTS OF THE SURFACE CHEMISTRY
OF GLASS. [1962] 27p.
Order from SLA \$2.60

62-18142

Trans. of Institut du Verre. Bulletin (France) 1946,
no. 3, p. 1-10.

An abstract trans. is available from SLA \$1.10 as
62-16754 [1962] [1]p.

DESCRIPTORS: *Glass, Surface properties, Adsorption,
Silicates, Atomic structure, X-ray diffraction analysis,
Crystal structure, Ions, Ion exchange, Sodium,
Hydrogen, Silver, Copper, Zirconium, Water.

The surface condition of glass is modified by the migra-
tion of alkaline ions. These surface alkaline ions may
be eliminated by the action of furnace gases, or by a
treatment with metakaolin (kaolin calcined to 600°C). By
(Materials--Ceramics, TT, v. 10, no. 2) (over)

62-18142

I. Weyl, W. A.

Office of Technical Services

means of so-called "base exchange" reactions they may be replaced by H or Ag ions, and "hydrogen-glasses" or "silver glasses" are thereby obtained, constituting the starting point for mirror formation. Organic chlorosilanes may substitute organic radicals for surface hydrogen ions and form hydrophobic glasses. The so-called "captive bubble" method permits the substantiation and evaluation of the adsorption by the glass surface of cations in solution, by means of contact-angle measurements of an air bubble to the glass surface in question. (Author)

PD- 62-18142

Accidental Systolic Heart Murmurs and Rate of
Flow in the Pulmonary Artery, by H. Spitzbarth,
H. Weyland, E. F. Gerameyer, 12 pp.

GERMAN, per, Z fuer Kreislaufforschung,
Vol XLVII, Nov 1958, pp 965-971.

NIH 3-51-60

Sci - Med

May 60

117, 356

The Flora of the German Lower Devonian (Die Flora
des Deutscher Unter Devons), by R. Krausel,
H. Weyland, 145 pp.

GERMAN, per, Abhandlungen der Preussischen
Geologischen Landesanstalt", No 131, 1930,
pp 1-92.

Library
Fisheries Res Bd of Canada
Biol Sta. St. Andrews, NB

171, 491

Sci - Geophys

Oct 61

Circulatory Studies With Synthetic Hypertensin II,
by E. F. Gersmeyer, H. Spitzbarth, H. Weyland,
17 pp.

GERMAN, per, Klinische Wochenschrift, Vol. XXXVI,
15 Nov 1958, pp 1061-1066.

NIH 2-38-60

Sci - Med

115,029

Apr 60

On the Thermonuclear Weapons, by M. Dayman,
8 pp. UNCLASSIFIED

RUSSIAN, par, Voyenny Vest, No 9, Sep 1957,
pp 67-72, Encl to IR-1746-58, AFCH-1A1.

AF 1189181

Sci - Nuclear Phys
27 Oct 58

75, 425

(NY-2394).

Chemistry in Atomic Engineering, by N. V. Hayman,
30 pp.

RUSSIAN, pamphlet, Khim v Atomnoy Tekhn, Ser IV,
No 30, 1957, pp 2-32.

JPRS 1470-M

Sci - Nuc Phys
May 59

86,555-

Level Indicator, by Charles Terres Weymann, 14 pp.
FRENCH, patent, No 690,603.
Patent Office

Sci - Ragr
Nov 64

249,433

(FDD 21741)

The Cartography of the Past and Present, With Special Reference to Its Tasks and Its Points of Contact With Topography, and Considering the Present Situation in German and Soviet Cartography, by H. Weymar, 29 pp.

GERMAN, no per, Vermessungs Technik, Vol II, No 4 (61-80), Berlin, Apr 1954, pp 63-70.

CIA/FDD/U-6298

EEur - Germany
USSR
Geo

18/164

63-20192

Weyrauch.

NEW INVESTIGATIONS DEALING WITH THE
ABSORPTION OF LEAD AND ITS DISTRIBUTION IN
THE ORGANISM IN EXPERIMENTAL POISONING,
PT. II. [1963] 12p 8refs
Order from SLA \$1.60

63-20192

Trans. of Z[eitschrift] f[ür] Hyg[iene und
Infektionskrankheiten] (Germany) 1931, v. 112,
p. 559-[568].

DESCRIPTORS: *Metal poisoning, *Lead, Toxicity,
*Gastrointestinal system, Distribution, *Respiratory
system, Absorption (Biological).

(See also 63-20191)

(Biological Sciences--Toxicology, TT, v. 10, no. 10)

I. Weyrauch

1252318

Office of Technical Services

63-20191

Weyrauch.
NEW INVESTIGATIONS [DEALING WITH THE
ABSORPTION] OF LEAD AND ITS DISTRIBUTION IN
THE ORGANISM IN EXPERIMENTAL POISONING.
PT. I. [1963] 23p 25refs
Order from SLA \$2.60 63-20191

Trans. of Z[eitschrift] f[ür] Hygiene und
Infektionskrankheiten] Germany) 1930, v. 111,
p. 162-179.

DESCRIPTORS: *Metal poisoning, *Lead, Absorption
(Biological), Toxicity, Chemical analysis, *Bone,
*Blood, Distribution, *Body, *Blood circulation.

(Biological Sciences--Toxicology, TT, v. 10, no. 10)

1. Weyrauch

4252317

Office of Technical Services

Weyrauch, F. and Litzner, St.
INVESTIGATIONS OF THE EXCRETION OF LEAD
BY THE KIDNEYS AND ITS RESPONSE TO CERTAIN
FORMS OF DIET AND MEDICATION, IN HUMAN
BEINGS. PT. II. CONCERNING THE SO-CALLED
NORMAL LEAD IN THE URINE. [1963] 9p 10refs
Order from SLA \$1.10 63-20290

Trans. of Arch[iv] f[ür] Gewerbepathologie und
Gewerbehygiene] (Germany) 1932, v. 3, p. 15-[22].

DESCRIPTORS: Excretion, *Lead, Kidneys, Diet,
Drugs.

(Biological Sciences--Toxicology, TT, v. 10, no. 12)

63-20290

I. Weyrauch, F.
II. Litzner, S.
III. Title: Concerning...

6156

Office of Technical Services

Is Insect Sleep a Reflection of Immobilization? ⁴²
by W. Weyrauch,
GERMAN, ger. Zool Anz., Vol 131, 1940, pp 73-82.
*AEC ORNL
127-99

W. Weyrauch

Sci-85M
Jul 68

Homo and Heterograft of Hematopoietic Tissues in
the Mouse, by Y D. W. Van Bekkum, O. Vos, W. W.
H. Weyzen, 12 pp.

FRENCH, per, Revue d'Hematologie, Vol. XI, No 5,
1956, pp 477-485.

NIH Tr 10-23

Sci - Medicine

54, 671

Oct 57

~~XXXXXXXXXXXX~~

Photochemical Formation of Organic Compounds
From Mixtures of Simple Gases, by W. E.
Groth, H. V. Weissenhoff, 6 pp.

RECEIVED, rpt.

Lerman

Plan/Sp Sci
Vol II, No 2/3

pp 79-85

PD 1466

168,373

Sci - Phys

Effect of Stimulation of Temperature
on the Arterial Pulse, by K. Wexler,
GERMAN, per, Z. Biol, Vol XCVI, No 3, New
Ber78, 1935, pp 251-297.
NASA TT F-10,004

K. Wexler

U. S. GOVERNMENT USE ONLY
Sci-B&M
Jun 66

302,041

44
Diastolic Tonus and Contractility of the Heart,
by K. Weisler.
GERMAN, per, Arztlche Forschung, Vol XVIII,
No 2, 1964, pp 57-77.
NH 7-20-64

Sci - Biol & Med
Aug 64

245,590

Wheatcroft, R. W. and Warner, W., III.
PROCESS FOR THE PREPARATION OF ADIPIC ACID
AND OF ITS PRECURSORS FROM CYCLOHEXANE.
[1961] 7p.

Order from ATS \$16.00

ATS-50N50F

Trans. of French patent 1,142,956, by E. I. du Pont
de Nemours and Co., filed 12 May 54, granted
8 Apr 57, pub. 25 Sep 57.

DESCRIPTORS: *Adipic acid, Synthesis, Cyclohexanes
Chemical reactions.

(Engineering--Chemical, TT, v. 6, no. 2)

61-22324

- I. Wheatcroft, R. W.
- II. Warner, W., III.
- III. Patent (France) 1 142 956
- IV. ATS-50N50F
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Reaction of Liquid Ammonia, by W. C. Johnson,
A. C. Wheatley.

GERMAN, per, Z fur AnorgK und Allgem Chem,
Vol CXXVI, No 3, 1934.

Dept of Int
US Bur of Mines
Sta Lib,
Rolla, Missouri.
No T-4.4-2

Sci - Chem
Apr 59

84, 6023

Nuclear Fission, by J. A. Wheeler, 10 pp.

RUSSIAN, per, Atom Ener, No 5, May 1956, pp 71-79.

Consultants Bureau

Sci - Physics
Jun 57

48,580

The Thermal Treatment of Gaseous Hydrocarbons,
by A. Dunstan, E. Hagus, R. Wheeler, 49 pp.

FRENCH, per, ⁱChimie et Industrie, Vol XXXIV,
1935, p 373.

SLA Tr 2430

Sci - Chemistry
Sep 57

5-3, 035-

122
New Synthetic Products, Processes for Their
Preparation, and Their Application, by J. R.
Whinfield, J. T. Dickson.

RESEARCH, Patent 919 782
DEC 69-11157-111

Sci-Mat
July 69

388,407

J. R. Whinfield

Performance Appraisal Research and Practice,
by T. L. Whisler, S. F. Harper.

UNKNOWN, rpt, 1962.

Holt, Rinehart & Winston

Sci
Nov 63

THE INFLUENCE OF COPPER AND TIN ON THE INTRINSIC
FORGEABILITY OF MILD STEELS, BY F. E. WHITE,
C. ROSSARD.

FRENCH, PER, REVUE DE METALLURGIE, VOL LIX,
MAR 1962, PP 237-241.

BISI 2928

SCI - M/M

OCT 62
LIST 154

214,809

Drilling Mud (Lime-Mud) for Difficult Drilling
Conditions, by P. Watkins, White.

GERMAN, per, Erdool und Kohle, Vol IX, No 1, 1956,
pp 9-12.

35,611

Tech and Comm Tr
\$66.00

Scientific - Engineering; Fuels

White, F. E. and Rossard, C. INFLUENCE OF COPPER AND TIN ON THE IN- TRINSIC FORGEABILITY OF MILD STEELS. June 62, 6p. (figs. omitted) 7 refs. Order from SLA \$1.10 62-16838 Trans. of Revue de Métallurgie (France) 1962, v. 59, no. 3, p. 230-241. DESCRIPTORS: *Steel, *Forging, *Tin, *Copper, Test methods, Deformation, Production. (Metallurgy, TT, V. 9, no. 1)	62-16838 I. White, F. E. II. Rossard, C. 1236469 Office of Technical Services
--	---

Uranium in the Serra de Jacobina, State of
Bahia, Brazil, by M. G. White.

PORTUGUESE, paper P/130, Proceedings of Inter-
national Conference on Peaceful Uses of Atomic
Energy Held at Geneva 8-20 Aug 1955, Vol VI.

Internatl Cn
Internatl Conf -- UN

Sci - Nuclear Physics
Apr 57

CIA 1-669.9.162

46,072

Handbook of Industrial Infrared Analysis,
by Robert G. White. pp 454

RUSSIAN, bk.

*Plenum Press
September 1964

May 65

Application of a ~~NEW~~ Metallic Coating on Glass
Filaments, by Harry B. Whitehurst, William H.
Otto.

FRENCH, patent no 1,092,604, Owens-Corning
Fiberglass Corp.

Dept of Commerce
Patent Office
Sci Lib

Sci - Engr
Aug 59

94,467

Soviet Book Review of A. S. Whiting's, "Soviet
Policies in China 1917-1924," 16 pp. UNCLASSIFIED

RUSSIAN, per, Sovetskoye Kitayevedeniye, No 1.
CIA 9034561

Rand Corp T-107

FE - China
Pol
Dec 58

Calculations in Quantum Chemistry. II. Computation of
Some Two-Center Molecular Integrals on a Digital
Electronic Computer, by Yu. A. Kruglyak and D.R.
Whitman, x 7 pp.

RUSSIAN, per, Zhur Strukturnoi Khim, Vol IV,
No 1, 1963, pp 91-97.

CB

Sci
Jun 64

261,393

Calculations in Quantum Chemistry. III. LCAO MO
Computation of $ns(a)$ $2ps(b)$ Interaction on a Fast
Digital Electronic Computer, by Yu. A. Kruglyak,
D. R. Whitman, 7 pp.

RUSSIAN, per, Zhur Strukturnoi Khimii, Vol. IV,
No 2, 1963, pp 254-260.

CB

Sci
Apr 64

254,180

Design, Production and Use of Hardmetal Mach-
ining tools, by J. Whitthoff.

GERMAN, per, Das Industrieblatt, Vol. LVII,
1957, pp 531-538.

Broken Hill Prop Co Ltd
(CHL/T.464)

Sci - Engr

Apr 62

191, 717

The Determination of Optimum Machining Conditions
by J. Whitthoff.

GERMAN, per, Werkstatt und Betrieb, Vol LXXXV,
No 10, 1952, pp 521-526.

Broken Hill Prop Co Ltd
(CRL/T.465)

Sci - Engr

191, 718

Apr 62

On the Formation of the Cutting Tip of the Machine Tool, by J. Whitthoff.

GERMAN, per, Industrie-Anzeiger, No 53,
1955.

Broken Hill Prop Co Ltd
(CRL/T.466)

Sci - Engr

191, 719

Apr 62

Concerning High Machining Performances With
Hardmetal, by J. Whitthoff.

UNKNOWN, per, Industrie-Rundschau, No 11,
1957.

Broken Hill Prop Co Ltd
(CRL/T.464)

Apr 62

Continuous Generalizations of Chebyshev's Inequality,
by P. Whittle, 9 pp.

RUSSIAN, per, Teoriya Veroyatnostey i yeye Primeneniya,
Vol III, No 4, 1958.

SIAM

Sci

Apr 62

191,601

Whitwham, D., Boghen, J., and Herenguel, J.
PREPARATION AND IRRADIATION OF U-UC CER-
METS AND STOICHIOMETRIC UC: SINTERING-EX-
TRUSION OF MIXTURES OF URANIUM GRAPHITE
POWDERS. Quarterly rept. no. 2 annex, Mar-Jun 61.
[1963] 17p 1ref

Contrac: [012-60-5 RDF (3748)]

Order from OTS, SLA, or ETC \$1.60 EURAEC-126

Trans. of a rept. from Commissariat à l'Énergie
Atomique, Paris (France) 13 Jun 61.

DESCRIPTORS: *Uranium compounds, *Carbides,
*Cermets, Radiation effects, Extrusion, Sintering,
Mixtures, Graphite, Powder metallurgy, *Reactor
fuels, *Control rods.

(Nuclear Physics--Nuclear Engineering, TT, v. 11,
no. 1)

TT-63-23453

- I. Whitwham, D.
- II. Boghen, J.
- III. Herenguel, J.
- IV. Title: Sintering-Extru-
sion ...
- V. EURAEC-126
- VI. European Atomic Energy
Community, Brussels
(Belgium)

00544

Office of Technical Services

Pseudo-Martensitic Transformation in Zirconium
Hydride, by D. Whirwham, Melle A. Huber, et al,
6 pp.
FRENCH, per, Acta Metallurgica, Vol VII, 1959,
pp 65-68. 9228843
AEC-ANL-Tr-165

Sci-M/M
Jun 65

281,077

Metallographic Study of Zirconium-Hydrogen
Alloys, by D. Whitwham.

FRENCH, per, Mem Sci Rev Mat, Vol LVII, No 1,
1960, pp 2-15.

Fulmer Res Inst
Stoke Poges, Bucks

Sci - Min/Mat

Sep 60

126,117

SLA: 61-12657

The "Coherent" and "Incoherent" Grain Boundaries
in the Twins of Cubic Metals, by D. Whitwham,
P. Lacombe.

FRENCH, per, Fourth Metallurgy Colloquium,
pp 161-182. 9203639

AEC-Tr-54602

Sci - Mat & Met

Mar 63

226,569

Surface Flow Phenomena During High Temperature
Oxidation: Zirconium and Its Alloys, by D.
Whitwham, J. Boghen, J. Herenguel.

FRENCH, per, Rev Alum, Vol XXXIV, No 244, 1957,
pp 611-623.

Fulmer Research Inst., Ltd
Tr 98

Sci - Chem
Mar 58

60,837

Finite Permutation Groups by Helmut Wielandt.
GERMAN, 114 pp.
Academic Press

Sci
May 66

300,839

Stream and Counter-Stream in the Kidneys.II.
New Concepts on Renal Osmotic Regulation, by
P.G.A.B. Wijdeveld.

DUTCH, per, Nederlands Tijdschrift voor
Geneeskunde, Vol.108, No.23, pp.1133-1137,
1964.

SIA-TT-66-11595

P. G. A. B. Wijdeveld

Sept 66

309,247

Biology and Thermodynamics of Irreversible
Phenomena, by I. Prigogine, J. M. Willems, 9 pp.

~~SECRET, CONFIDENTIAL~~

UNKNOWN, per, Experientia, Vol II, 1946,
pp 451-453.

AEC Tr 2274

Scientific - Biology
Nov 55 CTS/DEX

28,453

Experimental Studies of Buckling of a Hyper-
boloidal Shell Subjected to an Asymmetric
Load Acting on the Edges, by J. Wiannecki, 28 pp.
POLISH, per, Prace Inżynierskie, Vol 12,
No 4, 1964, pp 513-532. P100366867
FTD-HT-66-393

139

J. Wiannecki

Sci/Phys
Jan 68

348,319

Authoritative Polish Commentary Interpreting Proletarian
Internationalism - "A Crisis of Internationalism?" by
Jerzy Wiatr, 11 pp.

POLISH, no per, Nowe Drogi, No 11, 12, Nov-Dec 1956,
Encl No 2 to Desp No 299, Warsaw, 29 Jan 1957.

Dept of State
No 4027339

44, 314

ECur - Poland

Pol - Leninist & Stalinist interpretations of prole-
tarian Internationalism; Hungarian and Polish
situation

Gehlen -- a Twilight Figure, by Z. Wiatr, 5 pp, UNCLASS

POLISH, wnp, Kulisy [Sunday edition of the daily
Express Wieczorny], Warsaw, 11 January 1959.

FDD/J-4369

WEur - West Germany

Pol - Espionage

Feb 59

Wiatrowski, Stefan.
TECHNOLOGY OF THE PHOSPHORUS PRODUCTION
AND PHOSPHOROUS ACID. [1963] 10p. (figs.
omitted).
Order from SLA \$1.10

TT-63-16236

Trans. of [Chemik (Poland) 1957, v. 10, p. 38-41].

DESCRIPTORS: *Phosphorus *White phosphorus,
*Phosphorous acids, Production, Reduction, *Furnaces,
Design, Operation.

(Engineering--Chemical, TT, v. 11, no. 3)

TT-63-16236

I. Wiatrowski, S.

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 01-18-01 BY 60322 UCBAW

Office of Technical Services

How to Protect Oneself Against the Effects of
Atomic Weapons, by W. Wiatrowski, 8 pp.
POLISH, per, Przegląd Techniczny, No 4,
1964, p 6. 9697582
FTD-IT-64-1332

W. Wiatrowski

Sci-Nucl Sci
Jul 65

001,049

Connection Between the Alkaline Solubility of Wool
and its Mechanical Properties, by G. Wibaux.
FRENCH, per, L'Institut Textile de France. Bulletin.
Vol. 17, No. 107, 1963, pp 909-928
CSIRO/No. 6745

G. W, b A U X

Sci -

Aug 67

335-257

Wiberg, E. and Runschau, W.
A NEW BORIC ACID ("HYPO-BORIC ACID") WITH
THE FORMULA $H_4 B_2 O_4$ AND ITS ESTER. [1963]
9p (refs omitted)
Order from SLA \$1.10

TT-63-20301

Trans. of [Chemische Berichte] (Germany) 1937, v. 70,
p. 1393-1402.

DESCRIPTORS: *Boric acids, Esters, Methyl radicals,
Ethyl radicals, Synthesis (Chemistry), Saponification,
Esterification.

(Chemistry, TT, v. 11, no. 3)

TT-63-20301

I. Wiberg, E.
II. Runschau, W.

Office of Technical Services

The Chemistry of Borosulfonic and Its Derivatives, by
E. Wiberg, W. Sturm,

GERMAN, per, Angew Chem, Vol LXVII, 1955, pp 483-493.

ATS 541-GJ

Sci - Chem

Aug 60

123,911

Wiberg, Egon and Neumeier, Ulrich.
METHOD FOR THE PRODUCTION OF HIGHLY
COMPLEXED HYDRIDES. [1963] [7p]
Order from OTS or SLA \$1.10

63-20009

Trans. of German patent 1,060,527, M 34815 IVa/12,
cl. 12i 1/01, internat. cl. C 01 b, appl. 18 Jul 57,
pub. 28 Apr 60, addition to patent 1,066,553, by
Metallgesellschaft AG.

DESCRIPTORS: *Hydrides, Synthesis (Chemistry).
Group I elements, Group II elements, Group III
elements, Valence.

The invention involves a method for the production of
highly complexed hydrides according to Patent No.
1,066,553, (available in translation from LC or SLA
as 60-18000), characterized by the fact that a simple
hydride salt of an element of Group I or II or its
(Chemistry--Inorganic, TT, v. 10, no. 10) (over)

63-20009

I. Wiberg, E.
II. Neumeier, U.
III. Patent (Germany) 1 080 527
IV. Patent (Germany)
1 066 553 add.

1252537

Office of Technical Services

double hydride with the hydride of an element of Group III of the periodic system is utilized as a reaction component in place of M_2H_6 , and is converted with $Al(BH_4)_3$. A salt of an element of Group I or II of the periodic system, in place of the simple hydride salt or double hydride, may be converted with aluminum boron hydride. (Author)

PB- 63-20009

TT-63-22827

Wiberg, E., Graf, H., and Uson, R.
ABOUT MONOMERIC ALUMINUM HYDRIDE AlH_3
[1963] 19p
Order from K-H \$19.00

K-H 10464

Trans. of Zeitschrift für Anorganische und Allgemeine
Chemie (East Germany) 1953, v. 272, p. 221-232.

DESCRIPTORS: *Aluminum compounds, *Hydrides

- I. Wiberg, E.
- II. Graf, H.
- III. Uson, R.
- IV. K-H 10464
- V. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

11 51498

(Chemistry--Inorganic, TT, v. 11, no. 1)

Office of Technical Services

Mica Form of Silicon Oxyhydride [HS10 1.5]^{1/2} by
E. Wiberg, W. Simmler, 2 pp.

GERMAN, per, Z Anorg u Allgem Chem, Vol CCLXXXIII,
1956, pp 403-404. PP 401-413 -SLA 59-10823

NOT RELEASABLE TO FOREIGN NATIONALS

CIA/FDD/XX-329

Sci - Chem

Sep 57

IAC INTERNAL USE ONLY

53,338

CSIR 0-3138

63-16799

Wiberg, E. and Johannsen, Th.
A VOLATILE GALLIUM HYDRIDE OF THE FOR-
MULA Ga_2H_6 AND ITS TETRAMETHYL DERIVATIVE.
[1963] Sp. (refs. omitted).
Order from SLA \$1.10

63-16799

Trans. of [die] Naturwissenschaften (Germany) 1941
[v. 29] no. 21, p. 320ff.

DESCRIPTORS: *Gallium compounds, Aluminum com-
pounds, Hydrides, Methyl radicals, *Metalorganic
compounds, Synthesis (Chemistry), Chemical proper-
ties, Electrochemistry

The document also contains a brief abstract of: Metallic
precipitates at the negative pole of a galvanic battery,
R. L. Ruhland, Schweigger's Journal 15, 411-18, 1815;
and a lengthy abstract of: A non-volatile, polymeric
aluminum hydride (AlH_3)_x and some volatile compounds
of monomeric AlH_3 , O. Stecher and E. Wiberg.
Ber. 75: 2003-12, 1942.

1. Title: Aluminum trimethide
2. Title: Gallium tetra-methyl hydride
- I. Wiberg, E.
- II. Johannsen, T.

1004848
(Chemistry--Organic, TT, v. 10,
no. 11)

Office of Technical Services

The Polycondensation of Organo-substituted
Chlorosilanes R_nSiCl_{4-n} by Means of the Wurtz
Synthesis: Notum Informativum Accompanying the
Doctoral Thesis of Dr. Hans Denk, by E. Wiberg.
6 pp.

GERMAN, monograph, 1 Feb 1960.

SLA 60-14476

Sci

Apr 61

OTS, Vol III, No 12

163,283

"Inorganic Benzene" $B_3N_3H_6$ and Its Methyl Homologs,
E. Wiberg, 35 pp.

GERMAN, per, Naturwiss, Vol XXIV, No 6, 1948,
pp 182-188; No 7, pp 212-218.

ATB-8J190

Sci

Jul 59

92, 378

Recent Trends of Development in the Chemistry of
Boron, by E. Wiberg. UNCL

GERMAN, per, Experientia, (Supplementum VII, XVith
Int. Cong. Pure and Appl. Chem.), Jul 1957,
pp 183-212. 18-24

DSIR 33778/CT

Sci - Chem
Mar 59

83,229

New Results in Preparative Hydride Research, by
Helen Milberg, 35 pp.

1953, Proc. Amer. Chem. Soc., Vol. LXXV, 1953, pp 16-33.

AEC 7-1931

54-1 TR 488

Scientific - Chemistry
Jul 7/1983/DMH

16,478

Hydrogen Compounds, by Egon Wiberg, 47pp
GERMAN, per, FIAT Review of German Science,
1948, pp 125-166
SLA TT-61-20246

Egon Wiberg

Sci - Chem
June 67

328,900

Wiberg, Egon and Michaud, Horat.
INFORMATION REGARDING AN ALUMINUM
TRIAZIDE, A METHYL ALUMINUM DIAZIDE, A
BORON TRIAZIDE, AN ETHER-SOLUBLE LITHIUM
BORAZIDE, A SILICON TETRAZIDE, A SODIUM
HEXAZIDOSTANNATE, A MAGNESIUM AZIDE, A
BERYLLIUM AZIDE, A GALLIUM TRIAZIDE (SERIES
OF ARTICLES). [1964] 27p
Order from SLA \$2.60

TT-64-10462

Trans. of Zeitschrift für Naturforschung (West
Germany) 1954, v. 9b, p. 493-503.
Another trans. is available from LC or SLA \$2.70,
pb\$4.40 as TT-60-23043, PA-Trans-93, Jan 60, 27p.

(Chemistry--Inorganic, TT, v. 11, no. 10)

TT-64-10462

I. Wiberg, E.
II. Michaud, H.

1283475

Office of Technical Services

Information Concerning a Beryllium Hydride, BeH_2 , by
Egon Wiberg, Richard Bauer, 4 pp.

Full translation.

GERMAN, per, Z. Naturforsch., Vol VIb, 1951, p 171.

S.L.A.

Scientific - Chemistry

Aug 55

27,435

Identification of Gallium-Aluminum-Hydrogen $\text{Ga}(\text{AlEt}_2)_3$
and Gallium-Hydrogen-Etherate $\text{GaH}_3 \cdot \text{C}_2\text{H}_5\text{O}$, by Egon
Wiberg, Max Schmidt, 2 pp. UNCLASSIFIED

GERMAN, per, Zeitschrift der Naturforschung, Vol VII,
1951, p 172.

Navy Tr 873/ONI 1227

SLA Tr 2964

Scientific - Chemistry

Nov 53 CTS

7387

The "Inorganic Benzene" $B_3N_3H_6$ II; Preparation and
Properties of Hexamethyl Borazole ("Anorganic
Mellithol"), by Egon Wiberg, Karl Hertwig, 18 pp.

GERMAN, per, Z fur Anorganische Chemie, Vol CCLV,
1947, pp 141-184.

SLA 59-10340

Sci - Chem
OTS I, 9
Jun 59

89,514

Wilberg, Egon.

MORE RECENT RESULTS OF THE INVESTIGATION
INTO THE PREPARATION OF HYDRIDES. [1962]
[42]p. 109 refs.

Order from SLA \$4.60

63-10571

Trans. of Angewandte Chemie (West Germany) 1953,
v. 65, p. 16-33.

DESCRIPTORS: *Hydrides, Chemical reactions, *Syn-
thesis, Amides, Physical properties, Chemical analysis,
Chemical bonds, Hydrogen compounds, Aluminum com-
pounds, Boron compounds, Magnesium compounds,
Beryllium compounds, Gallium compounds, Lithium
compounds, Indium compounds, Thallium compounds,
Zinc compounds, Cadmium compounds, Mercury com-
pounds, Copper compounds, Silver compounds, Gold
compounds, Hydrogenation, Bibliographies.

(Chemistry--Inorganic, TT, v. 10, no. 1)

63-10571

I. Wilberg, E.

Office of Technical Services

Magnesium Hydride, MgH₂, by Egon Wiberg, Richard
Bauer, 27pp
GERMAN, per, Chemische Berichte, Vol 35, 1952,
pp 593-605
SLA TT-65-10001

Egon Wiberg

Sci - Chem
June 67

328,966

Identification of Beryllium Hydrogen BeH_2 , by Egon
Wiberg, Richard Bauer, 2 pp. UNCLASSIFIED

GERMAN, per, Zeitschrift der Naturforschung, Vol VIb,
1951, p 171.

SLA-Tr 2958

Navy Tr 871/ONI 1225

REC TR 2017

Scientific - Chemistry

Nov 53 CTS

7383

Identification of a Lithium-Gallium-Hydrogen LiGaH_4 ,
by Egon Wiberg, Max Schmidt, 2 pp. UNCLASSIFIED

GERMAN, per, Zeitschrift der Naturforschung, Vol VIIb,
1951, pp 171-172.

Navy Tr 872/ONI 1226

521 Tr 2960

Scientific - Chemistry

Nov 53 CTS

7377

Identification of Indium Hydrogen InH_3 , by Egon
Liberg, Max Schmidt, 2 pp. UNCLASSIFIED

GERMAN, per, Zeitschrift der Naturforschung, Vol VIb,
1951, pp 172-173.

Navy Tr 874/ONI 1228

5.2.14 Tr 2963

Scientific - Chemistry

Nov 53 CTS

7376

Wiberg, Egon and Usom, Rafael.
ON A COMPLEX HYDRATE $Ti(AlH_4)_4$. 9p 24refs.
Order from SLA \$1.10 TT-64-18513

Trans. of [R.] Academia de Ciencias Exactas, Fisico-
Químicas y Naturales de Zaragoza. Revista (Spain)
1951, [ser. 2] v. 6, no. 2, p. 15-23.

(Chemistry--Inorganic, TT, v. 12, no. 7)

TT-64-18513

I. Wiberg, E.
II. Usom, R.

Office of Technical Services

On Hydrogenation of Phosphorous Halides With Metal
Hydrides¹ (On the Problem of the Existence of a
phosphineoxide PH_3O), by Egon Wiberg, (Humboldt
Miller-Schiedmayer, 18 pp. 200VIII)

CERIM, per, Zist Amerg Chemie, Vol LXXIII, No 1/6,
1961, pp 352-368.

CIA/FDD XX-1073

NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem

172, 461

Nov 61

Identification of stable ethereal aluminum hydrogen
solutions, by Egon Wiberg and Max Schmidt. 2 pp.
UNCLASSIFIED.

GERMAN, per, Zeitschrift der Naturforschung, 6b, pp.
333-334, 1951.

NAVY TR. 875/ONI 1229

S.L.A. TR 2962

Scientific - Chemistry

Nov 53 CTS

7204

Identification of Thallium Aluminum Hydorgen $\text{TlCl}(\text{AlH}_4)_2$, a by Egon Wiberg and Max Schmidt. 2 pp.
UNCLASSIFIED.

GERMAN, per, Zeitschrift der Naturforschung, 6b,
pp. 334-335, 1951.

NAVY TR. 876/ONI 1230

S.L.A. TR 2961

Scientific - Chemistry

Nov 53 CTS

7205

Information on Magnesium Aluminum Hydride $Mg(AlH_4)_2$,
by Egon Wiberg, Richard Bauer, 5 pp.

German
RUSSIAN, per, Z Naturforsch, Vol VIIb, 1952,
pp 131, 132.

AEC Tr 3037

Sci - Chemistry
Oct # 57

54, 284

V
Identification of Chlorine Derivates of Aluminum
Hydrogen AlH_3 , by Egon Wiberg, Max Schmidt, 3 pp.

UNCLASSIFIED

GERMAN, per, Zeitschrift der Naturforschung, Vol IVb,
1951, pp 460-461.

Navy Tr 89/CNI 1235

S.L.D. TR 2950

Scientific - Chemistry

Nov 53 CTS

7210

On a Complex Hydrate $Ti(AlH_4)_4$,
by Egon Wiberg, 9 pp.
SPANISH, per, Revista Academia de Ciencias
Exactas, Fisico-Quimicas y Naturales de
Zaragoza, Vol VI, No 2, Ser 2, 1951, pp 15-23.
CFSTI TT-64-18513

Egon Wiberg

Sci - Chem
Jul 66

305,816

Identification of Cadmium Hydrogen CdH_2 , by
Egon Wiberg, Walter Henle, 2 pp.

UNCLASSIFIED

GERMAN, per, Zeitschrift der Naturforschung, Vol VII.
p 461, 1951.

Navy Tr 334/ONI 1236

SLA-TR 21951

Scientific - Chemistry

Nov 53 CTS

Nov 53 CTS

7211

Identification of Bromine Derivates of Aluminum
Hydrogen AlHBr_2 (Monobromo alane AlH_2Br and dibromo
alane AlHBr_2), by Egon Wiberg, Max Schmidt, 2 pp.

UNCLASSIFIED

GERMAN, per, Zeitschrift der Naturforschung, Vol IVb,
1951, pp 459-460.

Navy Tr 830/ONI 1234

Scientific - Chemistry S.L.A. Tr 2954

Nov 53 CTE 7209

Identification of Iodine Derivates of Aluminum
Hydrogen AlH_3 (Monoiodide alane AlH_2I and diiodide alane
 AlH_2I_2), by Egon Wiberg and Max Schmidt, 2 pp.

UNCLASSIFIED

GERMAN, per Zeitschrift der Naturforschung, Vol VII,
1951, pp 458-459.

S.L.H. TR 2955
Navy Tr. 879/ONI 1233

Scientific - Chemistry

Nov 53 CTS

7208

Identification of B-fluorinated Borazol, by
Egon Wiberg and Gabriele Horeld, 3 pp. UNCLASSIFIED
UNCLASSIFIED

GERMAN, per, Zeitschrift der Naturforschung, 6b,
pp. 338-339, 1951.

S.L.A. Tr 2887
NAVY TR. 872/ONI 1232

Scientific - Chemistry

Nov 53 CTB

7207

Identification of Thallium Gallium Hydrogen Tl
(GaH₃)₃, Egon Wiberg and Max Schmidt, 2 pp.
UNCLASSIFIED

GERMAN, per Zeitschrift der Naturforschung, 6b,
p. 335, 1951.

SLA 1683/57
NAVY TR. 871/OHI 1231

Scientific - Chemistry

Nov 53 CTS

7206

Identification of Mercury Hydrogen HgH_2 , by Egon
Wiberg, Walter Henle, 2 pp. UNCLASSIFIED

GERMAN, per, Zeitschrift der Naturforschung,
Vol VIIb, 1951, pp 461-462.

Navy Tr 883/ONI 1237

S. L. A. Tr 2952

Scientific - Chemistry
CTS/DEX

7227

Wiberg, Egon and May, Adolf.
TRANSFORMATION OF ALUMINUM HYDRIDE WITH
AMMONIA AND AMINES. I. EXPERIMENTS FOR
THE PREPARATION OF AN "ALAZOL" $\text{Al}_3\text{N}_3\text{H}_6$
HOMOLOGOUS TO BORAZOL. [1963] 43p
Order from K-H \$43.00 K-H 3564

Trans. of Zeitschrift für Naturforschung (West
Germany) 1955, v. 10b, p. 229-240.

DESCRIPTORS: *Aluminum compounds, Hydrides,
Transformations, *Ammonia, *Amines,
Synthesis (Chemistry).

(Chemistry--Physical, TT, v. 11, no. 10)

TT-63-22823

1. Title: Alazol
2. Title: Borazol
- I. Wiberg, E.
- II. May, A.
- III. K-H-3564
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

280554

Office of Technical Services

WIDING, M.

Jeinkontorets Annaler, vol. 119, 1 figure, 1050-word abstract; 1935.

Investigation of a Charcoal Blast Furnace.

Butcher Trans, Order No. 736, 11.05.

A13003

WIBERG, M.

Jernkontorets Annaler, vol. 121, 2 figures,
1050-word abstract; 1937.

Fuel Consumption of Swedish Charcoal Blast Furnaces.

Brutcher Trans, Order No. 737 \$1.05

A 13004

WIEFEG, H.

Jernkontorets Annaler, vol. 124, 7 figures, 1950-
word abstract; 1940.

Reduction of Iron Ore by Carbon Monoxide, Hydro-
gen, and Methane.

Brutcher Trans, Order No. 1417, \$2.45.

S. L. A. Tr 24 20

A13005

Some New Sponge Iron Processes, by M. Wiberg.
UNCL

SWEDISH, per, Jernkont Ann, No 6, 1958,
pp 289-355.

Henry Brutocher 4615

HB 4615 for, go 318-355

Sci - Min/Met
Sep 59

96,492